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Notes on the Salticidae (Araneae) from Northern Mongolia with Description of a New Species

By Wanda Wesołowska, Wrocław

With 13 figures

Summary

The paper lists 7 species of Salticidae found in northern Mongolia, one of them, *Yllenus desertus*, being new for science.

Zusammenfassung

Die Arbeit behandelt 7 Salticidae-Arten aus der nördlichen Mongolei. Eine dieser Arten, *Yllenus desertus* n. sp., wird beschrieben.

1. Introduction

The Mongolian Salticids are still poorly known, some information is given only in papers of SIMON 1889, SCHENKEL 1936, 1963, LOKSA 1965, PRÓSZYŃSKI 1968, PUNDA 1975, WESOŁOWSKA 1981. PRÓSZYŃSKI's (1982) paper, in which 26 species are mentioned, is the most detailed contribution until now. The present note contains additional information on hitherto recorded species, records of two species new for Mongolia, and the description of one new species, *Yllenus desertus*. The material referred to in this paper has been collected by M. STUBBE during the expedition of the Halle University to Northern Mongolia. It is kept in the Museum of Halle University (Germany) except the holotype of *Yllenus desertus* n. sp. which is preserved in the Slovak National Museum (Bratislava).

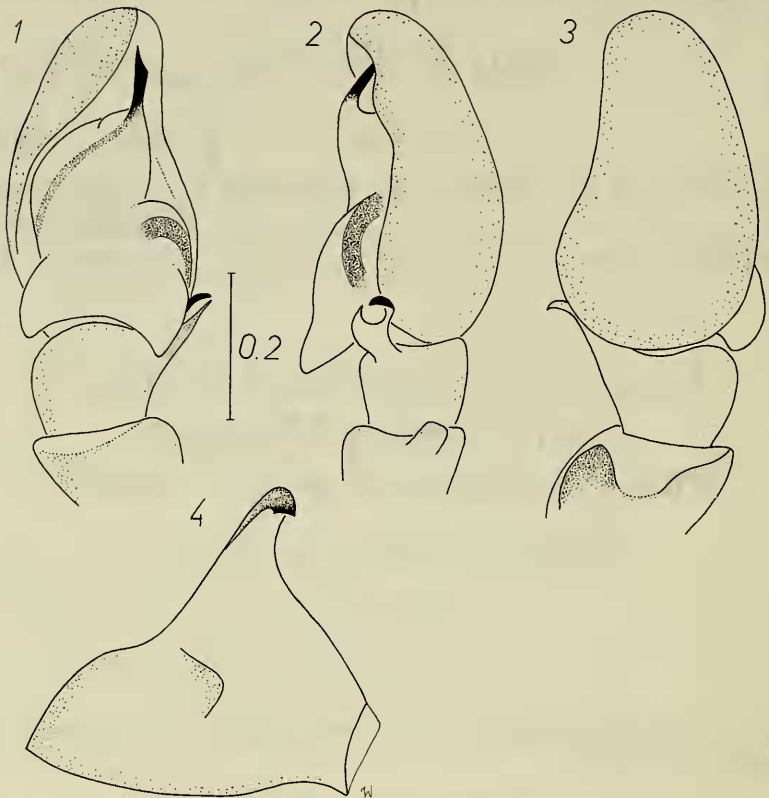
I am grateful to Dr. M. STUBBE (Halle) and Dr. J. SWATOŇ (Bratislava) for rendering accessible the material for the study.

2. List of species

2.1. *Aelerillus festivus* (C. L. Koch 1834)

Material: 1 ♂, Bulgan-gol, steppe, ground hole, 13.–28. V. 1978, no. 426.

Widely distributed Palearctic species.



Figs 1-4. *Heliophanus patagiatus* Thorell; ♂. - 1. Palp, ventral view, - 2. lateral view, - 3. dorsal view, - 4. palpal femur.

2.2. *Phlegra fasciata* (Hahn 1826)

Material: 1 ♀, Jarantai, semidesert, 4. V. 1974, no. 257.

Widely distributed Holarctic species.

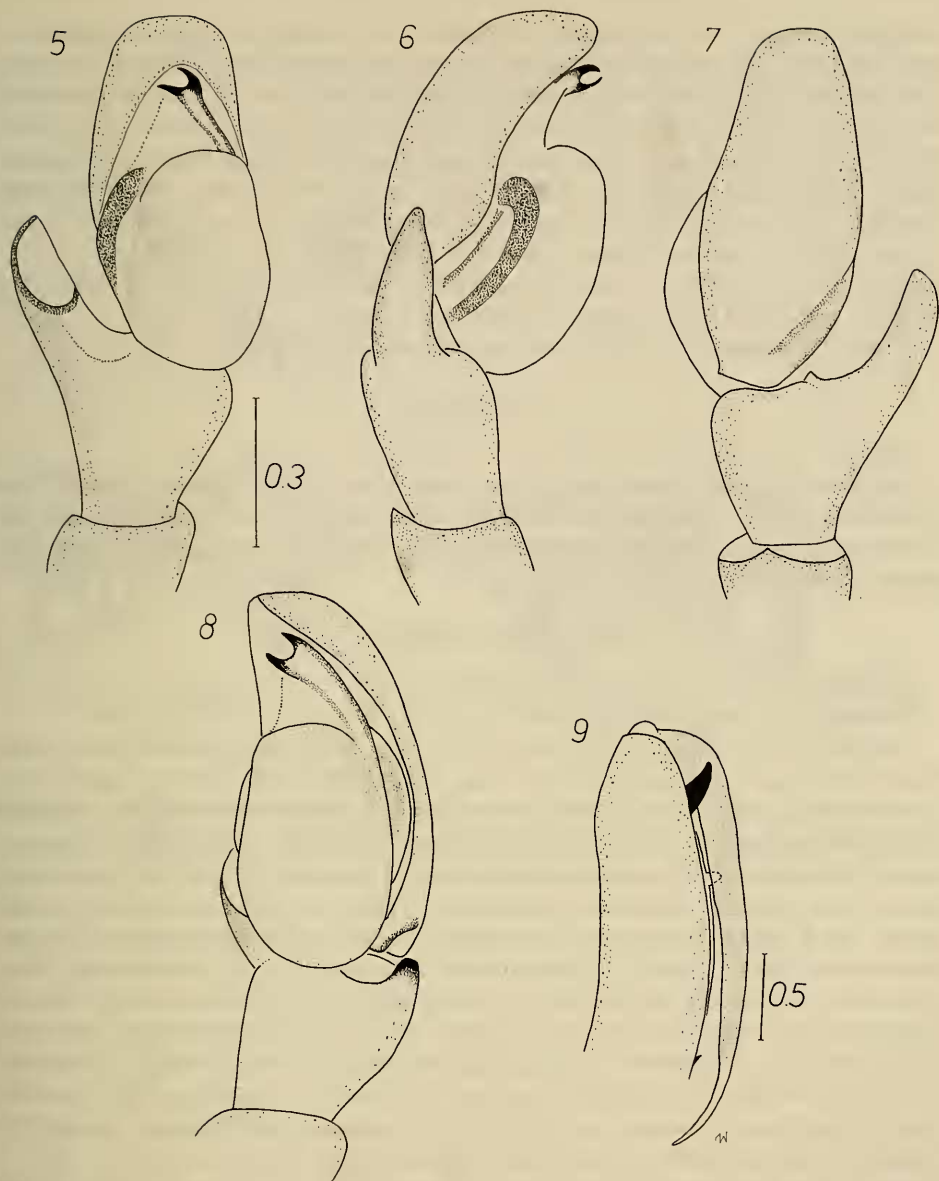
2.3. *Heliophanus patagiatus* Thorell 1875

Material: 1 ♂, 1 ♀, Bulgan-gol, V. 1978, no. 410; - 2 ♂♂, 1 ♀, 1 juv., same data, no. 411; - 2 ♂♂, 1 juv., same data, no. 413; - 1 juv., same data, no. 414.

Male. Carapace dark brown, eye field black, a few brown setae near the eyes. Sternum orange with dark margin at posterior part. Abdomen black, shiny, with thin white band at anterior edge extending to the sides. Legs yellow with dark longitudinal stripes on dorsal surfaces of femora. Pedipalp black, tibial apophysis characteristic, pincers-shaped; additional short outgrowth on patella; femoral apophysis large, curved distally (Figs 1-4).

Female. Coloration as in male, but posterior part of abdomen with barely perceptible traces of herring-bone pattern.

Widely distributed Palearctic species, for the first time recorded in Mongolia.



Figs 5-9. *Salticus cingulatus* (Panzer); ♂. - 5. Palp, ventral view, - 6. lateral view, - 7. dorsal view, - 8. lateral view, other side, - 9. cheliceral dentition.

2.4. *Salticus cingulatus* (Panzer 1797)

Material: 1 ♂, Bulgan-gol, V. 1978, no. 409.

Carapace dark brown with black eye field, covered with scarce white scales and brown setae, more numerous in vicinity of eyes. Clypeus narrow with white hairs. Sternum almost black, labium dark brown, maxillae light brown. Chelicerae very elongated, horizontal, with long fang, promargin with single truncated tooth, retro-

margin with big tooth near base of fang and with a small one not far from base of chelicerae (Fig. 9). Abdomen elongated, black with three pairs of large triangular spots on both sides composed of numerous white hairs, but the pattern obliterated and blurred. Ventrally abdomen dark. Spinnerets black. Legs brownish-orange with darker lateral surfaces of femora, patellae and tibiae. Thin light and brown hairs on legs. Pedipalp light brown, single white scales on cymbium. Tibial apophysis great, flattened, with small additional tooth on dorsal side at its base. Cymbium rather narrow, bulbus convex, embolus bifurcated (Figs 5–8).

Length of cephalothorax 2.5 mm, length of eye field 1.0, width of eye field I 1.2, width of eye field III 1.3, length of abdomen 2.7 mm.

Widely distributed Palaearctic species, new to Mongolia.

2.5. *Sitticus* sp.

Material: 1 ♀, Ulaan-uul, 13. VI. 1975, no. 341.

This female closely resembles *Sitticus penicilloides* described from North Korea (WESOŁOWSKA 1981), both in the coloration and in the external structure of epigyne. However, due to scarcity of data (only one single female) this suggestion cannot be at present confirmed.

2.6. *Yllenus desertus* sp. n.

Holotype ♀, Jarantai, semidesert, 25. V. 1975, no. 391.

Paratypes: 1 ♀, desert, 6. V. 1974, no. 276; – 1 ♀, desert, 13. V. 1975, no. 328.

Carapace rather broad, dark brown, near eyes black, covered with very dense short white hairs and scarce brown setae, in neighbourhood of eyes setae more numerous. Clypeus clothed with white hairs. Sternum almost black, centrally lighter, white hairs on it. Labium dark brown, maxillae a little paler, chelicerae brown without teeth. Abdomen almost spherical, brownish-black with dense short white hairs and not numerous brown setae. Traces of abdominal pattern weakly visible: three light triangular patches longways in the middle and irregular light patches on both sides. Ventrally abdomen dark. Spinnerets brown. Legs stumpy, short yellow with brown patches, the most intensity on lateral surfaces of femora. Hairs of legs dense long white and brown, in places white scales, spines brown. Tarsi with scopula and very long claws. Epigyne large, more or less oval, strongly sclerotized. Two crescent-shaped copulatory openings far away from one another. Posterior edge of epigyne with median notch (Fig. 10). Copulatory canals broad, especially in initial stretch, spermathecae many-chambred, strongly sclerotized (Figs 11–12).

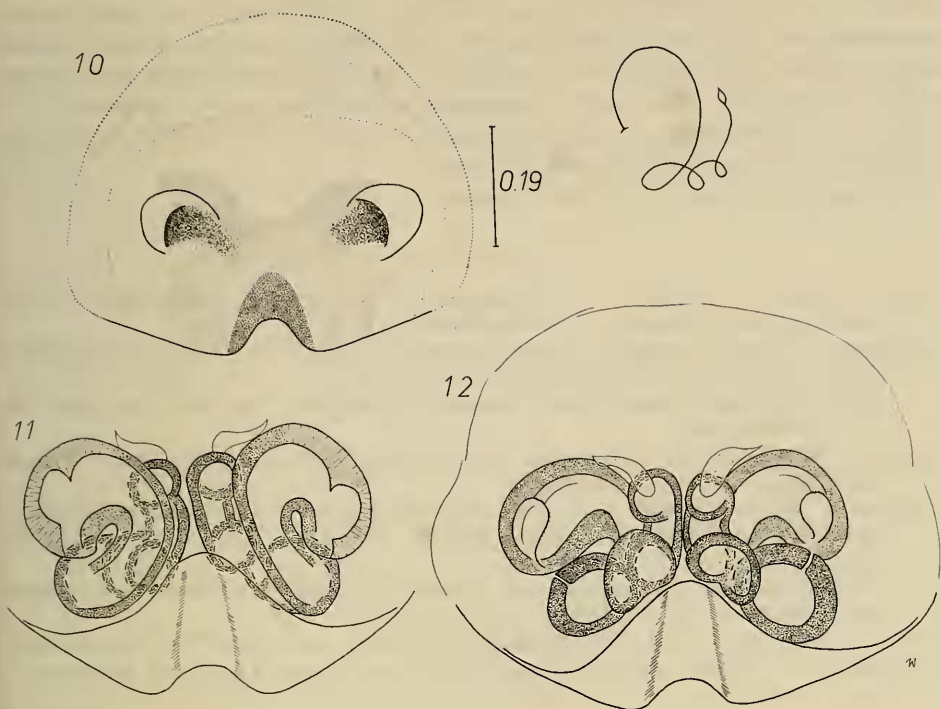
Length of cephalothorax 2.4 mm, length of eye field 1.1–1.2, width of eye field I 1.4–1.5, width of eye field III 1.6, length of abdomen 3.2–3.4 mm.

A species of the *arenarius* group (see: PRÓSZYŃSKI 1968), differing from the related species in details of coloration as well as in shape of epigyne and its internal structure.

2.7. *Yllenus flavociliatus* Simon 1895

Material: 1 ♀, Ulaan-uul, 13. VI. 1975, no. 303.

Carapace brown, covered with short dense white hairs and sparse brown setae. On sides of carapace in vicinity of eyes of posterior row numerous white and yellow scales. Sternum yellow, darker in anterior part. Abdomen slightly elongated, grey



Figs 10–12. *Yllenus desertus* n. sp.; ♀, paratype. — 10. Epigyne and male spermatoozoon (right), — 11. epigyne, internal structures, ventral view, — 12. the same, dorsal view.

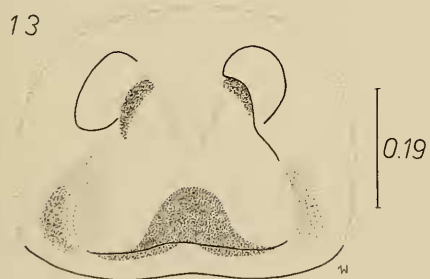


Fig. 13. *Yllenus flavociliatus* Simon; ♀, epigyne.

with yellow tint, as well as dorsally and ventrally clothed with dense whitish scales. Spinnerets dark. Legs pale yellow. Epigyne oval, strongly sclerotized, with central part prominently elevated and two semicircular copulatory openings in anterior part (Fig. 13). Posteriorly single pocket translucent through the walls of epigyne. Length of carapace 2.4 mm, length of eye field 1.1, width of eye field I 1.5, width of eye field III 1.6, length of abdomen 2.7 mm.

This species is known only from Mongolia.

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Author's address:

Dr. WANDA WESOŁOWSKA, Instytut Zoologiczny U Wr, ul. Sienkiewicza 21, PL-50-335 Wrocław, Poland.